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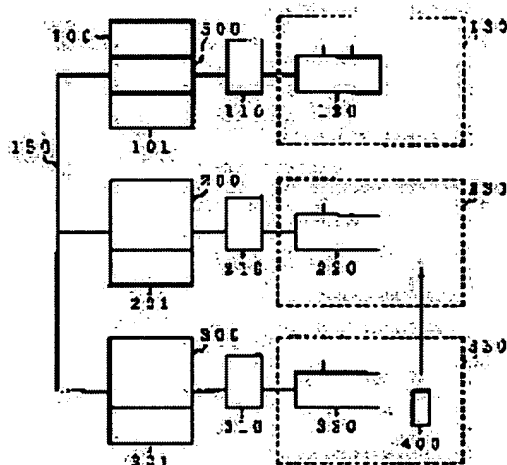
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## (54) WIDE AREA ROAMING AUTHENTICATION DEVICE AND WIDE AREA ROAMING AUTHENTICATION METHOD FOR PORTABLE RADIO TELEPHONY EQUIPMENT

(57)Abstract:

**PROBLEM TO BE SOLVED:** To reduce the number of signal processings inside a private general service network and to lower the traffic of the entire private general service network.  
**SOLUTION:** A portable radio telephony equipment is moved to another service area 230 and a home station private branch exchange 100 which has received information acquisition request signals from a visitor station private branch exchange 200 identifies authentication arithmetic algorithm held by the visitor station private branch exchange 200. In the case detecting that it is the same as the one held by itself, it is returned to the visitor station private branch exchange 200 that an inter-exchange authentication sequence is not required by information acquisition response signals.



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